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JC05 Rec'd PCT/PTO 20 SEP 2005

HYDRODYNAMIC TORQUE CONVERTER

[001]

[002]

FIELD OF THE INVENTION

[003]

The invention relates to a hydrodynamic torque converter.

[004]

BACKGROUND OF THE INVENTION

[005]

Hydrodynamic torque converters are often used as a continuously adjustable link between a drive motor and a transmission, preferably a power shift gearbox. For this, particularly during the starting process or when carrying out gearshifts in the gearbox, the operating parameters of the hydrodynamic torque converter must be known. It is possible in particular to determine the torque of the hydrodynamic torque converter by computer, if the load condition and speed of the drive motor and the drive output speed of the hydrodynamic converter and its performance characteristic curve are known. However, precise information about the actual operating condition of the hydrodynamic converter cannot be obtained in this way because the operating condition of the hydrodynamic converter additionally depends on other operating parameters, such as the temperature and viscosity of the pressure fluid and tolerances of the pump impeller and turbine rotor.

[006]

DE 198 57 232 C1 discloses a driver disk of a hydrodynamic torque converter, which is arranged between the drive motor and the pump impeller of the hydrodynamic torque converter and contains torque sensors in order to determine the torque of the pump impeller exactly.

[007]

The purpose of the present invention is to provide a hydrodynamic torque converter in which the torque produced by the turbine rotor is known in every operating condition.

[008]

[009]

SUMMARY OF THE INVENTION

[010]

According to the invention, in a first embodiment the hydrodynamic torque converter comprises a torque measurement device connected to the pump impeller of the torque converter. Between the pump impeller and the drive motor